## INTERNATIONAL SEARCH REPORT

International application No.

PCT/IL04/01078

| A. CLASSIFICATION OF SUBJECT MATTER                                                                                                                                                                                                                                                                                                                                      |                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                 |                                                                                                        |                                                                 |                                               |  |
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| IPC(7) : B65G 59/00 ; B65H 3/52<br>US CL : 221/259 ; 271/121                                                                                                                                                                                                                                                                                                             |                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                 |                                                                                                        |                                                                 |                                               |  |
| According to International Patent Classification (IPC) or to both national classification and IPC                                                                                                                                                                                                                                                                        |                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                 |                                                                                                        |                                                                 |                                               |  |
| B. FIELDS SEARCHED                                                                                                                                                                                                                                                                                                                                                       |                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                 |                                                                                                        |                                                                 |                                               |  |
| Minimum documentation searched (classification system followed by classification symbols) U.S.: 221/259,33,42,210253; 271/121,188,272                                                                                                                                                                                                                                    |                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                 |                                                                                                        |                                                                 |                                               |  |
| Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched                                                                                                                                                                                                                                            |                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                 |                                                                                                        |                                                                 |                                               |  |
| Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)                                                                                                                                                                                                                                             |                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                 |                                                                                                        |                                                                 |                                               |  |
| C. DOCUMENTS CONSIDERED TO BE RELEVANT                                                                                                                                                                                                                                                                                                                                   |                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                 |                                                                                                        |                                                                 |                                               |  |
| Category *                                                                                                                                                                                                                                                                                                                                                               |                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Relevant to claim No.           |                                                                                                        |                                                                 |                                               |  |
| Α                                                                                                                                                                                                                                                                                                                                                                        | US 5,249,787 A (IFKOVITS) 05 October 1993 (05.10.1993) see the entire document 1-25   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 1-25                            |                                                                                                        |                                                                 |                                               |  |
| A                                                                                                                                                                                                                                                                                                                                                                        | US 5,833,230 A (NAKAGAWA et al) 10 November 1998 (10.11.1998) see the entire document |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 1-25                            |                                                                                                        |                                                                 |                                               |  |
|                                                                                                                                                                                                                                                                                                                                                                          |                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                 |                                                                                                        |                                                                 |                                               |  |
|                                                                                                                                                                                                                                                                                                                                                                          |                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                 |                                                                                                        |                                                                 |                                               |  |
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| Constant family appear                                                                                                                                                                                                                                                                                                                                                   |                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                 |                                                                                                        |                                                                 |                                               |  |
| Further documents are listed in the continuation of Box C.  Special categories of cited documents:  "T"                                                                                                                                                                                                                                                                  |                                                                                       | "T" later document published after the interm                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | ational filing date or priority |                                                                                                        |                                                                 |                                               |  |
| "A" document defining the general state of the art which is not considered to be of particular relevance  "E" earlier application or patent published on or after the international filing date  "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) |                                                                                       | date and not in conflict with the application but cited to understand the principle or theory underlying the invention  "X"  document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone  "Y"  document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being |                                 |                                                                                                        |                                                                 |                                               |  |
|                                                                                                                                                                                                                                                                                                                                                                          |                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                 | "O" document                                                                                           | referring to an oral disclosure, use, exhibition or other means | obvious to a person skilled in the art        |  |
|                                                                                                                                                                                                                                                                                                                                                                          |                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                 | "P" document published prior to the international filing date but later than the priority date claimed |                                                                 | "&" document member of the same patent family |  |
| Date of the actual completion of the international search                                                                                                                                                                                                                                                                                                                |                                                                                       | Date of mailing of the international search report  1.2 SEP 2005                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                 |                                                                                                        |                                                                 |                                               |  |
| 02 June 2005                                                                                                                                                                                                                                                                                                                                                             | (02.06.2005) iling address of the ISA/US                                              | Authorized officer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                 |                                                                                                        |                                                                 |                                               |  |
| Mail Stop PCT, Attn: ISA/US Commissioner for Patents                                                                                                                                                                                                                                                                                                                     |                                                                                       | Renneth W Noland                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                 |                                                                                                        |                                                                 |                                               |  |
| P.O. Box 1450<br>Alexandria, Virginia 22313-1450<br>Facsimile No. (703) 305-3230                                                                                                                                                                                                                                                                                         |                                                                                       | Telephone No. 571-272-3600                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                 |                                                                                                        |                                                                 |                                               |  |

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